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- 6 mapped to said first address data; and
7 converting the first address data with the detected
8 address data.

- 1 ~~6.~~ An address converter for use in a gateway connected
2 between first and second networks of different address formats,
3 comprising:
4 receive means for receiving, from said first network, a
5 packet containing first address data conforming to said first
6 network and second address data conforming to said second
7 network, said first address data being contained in a packet
8 header of the packet and said second address data being
9 contained in an auxiliary header of the packet;
10 control means for rewriting said first address data with
11 said second address data; and
12 transmit means for transmitting the packet to said second
13 network.

- 1 7. The address converter of claim 6, wherein said
2 auxiliary header further contains auxiliary information.

- 1 8. The address converter of claim 7, wherein the
2 control means is arranged to eliminate, from said packet, a field
3 in which said second address data is contained.

- 1 9. The address converter of claim 6, wherein said
2 control means is arranged to write said first address data into
3 said auxiliary header.

- 1 10. The address converter of claim 6, wherein said
2 control means comprises a database and is arranged to:
3 make a search through a received packet;

- 4 examine said database if said auxiliary header is not
- 5 contained in the received packet and detecting address data
- 6 mapped to said first address data; and
- 7 convert the first address data with the detected address
- 8 data.

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